

$$0,4 \div 0,7 \quad .$$

$$(1 \div 10) \cdot 10^{-3} / \quad ^2$$

$$- 0,6$$

$$0,4 \div 0,8 \quad .$$

: **1.**

2005.- . 33 – 36.

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.. , . ; .. , “ ” ;  
 .. ; .. ; **.O.** , “ ” ,

The kinetic characteristic of leaching the silver from surface of electrotechnical scrap were determined. The limiting stage of process in different interval of temperature were defined. The recommendations for intensification the process of leaching were presented.

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90 – 95 % [1]. -

[2, 3]

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(40 – 100 ° ) ,

/ <sup>3</sup>: H<sub>2</sub>SO<sub>4</sub> – 14,56, HNO<sub>3</sub> – 1,02 . -

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:  $G = G_0 - \Delta m$ ,

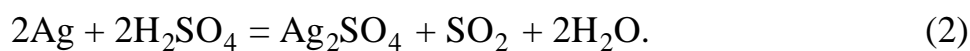
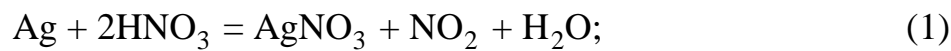
$\Delta m$  – ;  $G_0$  –

• -

75 – 80 , 1,02 / <sup>3</sup> HNO<sub>3</sub>  
H<sub>2</sub>SO<sub>4</sub>, / <sup>3</sup>: 1 – 14,56; 2 – 13,49; 3 – 12,15; 4 – 10,27.

• -

, H<sub>2</sub>SO<sub>4</sub> HNO<sub>3</sub> :



1 . %,

(2).

$\alpha$

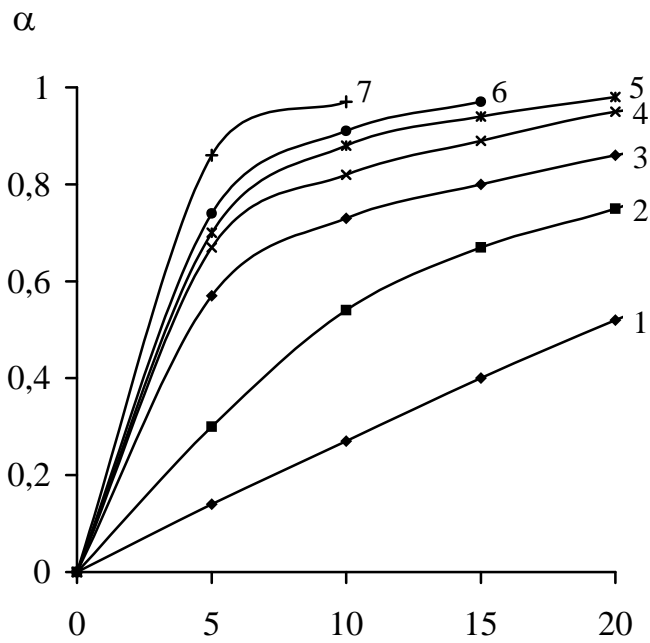
( . . . 1)

0 ( . . . 2).

$$d\alpha/d\tau$$

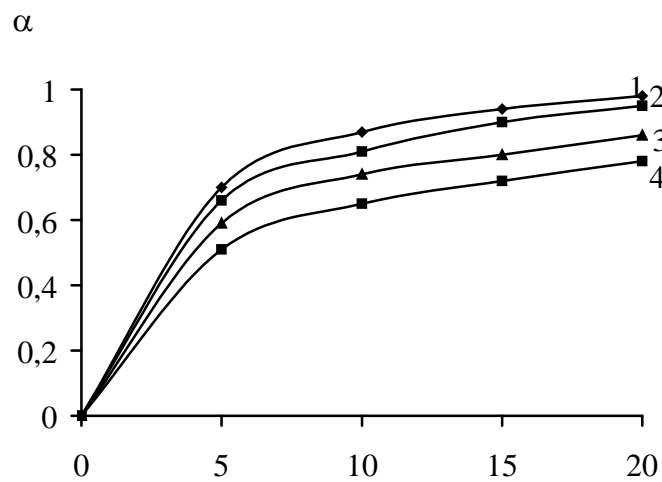
[4].

$$d\alpha/d\tau$$



. 1.

, : 1 – 40; 2 – 50; 3 – 60; 4 – 70; 5 – 80; 6 – 90; 7 – 100



. 2.

1 – 14,56; 2 – 13,49; 3 – 12,15; 4 – 10,27

$$r = (G_0 - G) / G,$$

$G_0$ ,  $G$  – , ,

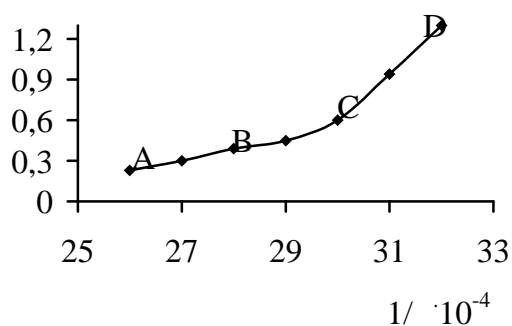
[4]. .1

$$r = 0,5$$

$$\lg \tau_{0,5} - 1/T$$

( . .3).

$\lg \tau_{0,5}$



.3.

$$r = 0,5,$$

$\tau_i$ ,

$\alpha_i$ ,

:

$$\frac{\Delta \ln \tau(\alpha_i)}{\Delta(1/T)} = \frac{E}{R},$$

$R$  – .

$\ln \tau - 1/T$ ,  $E/R$ .

$$E = 2,3R \cdot tg \beta, \quad \beta -$$

$40 - 60^{\circ}$  ( . .3, )

66,93 . -

$80 - 100^{\circ}$  ( . .3, CD)

15,3

$$60-80^{\circ}$$

(

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$$d\alpha/d\tau$$

:

$$\frac{\left(\frac{d\alpha}{d\tau}\right)_{1,\alpha_i}}{\left(\frac{d\alpha}{d\tau}\right)_{2,\alpha_i}}=\frac{\left(C_{0_1}-G_{0_i}\right)^n}{\left(C_{0_2}-G_{0_i}\right)^n}.$$

$$\lg\left(\frac{d\alpha}{d\tau}\right)_i-\lg\left(C_0-G_{0_i}\right).$$

$$\tau_i,$$

$$\alpha_i,$$

$$\lg-C_0.$$

[5]:

$$n=-\frac{\Delta\lg\ddagger}{\Delta\lg C_0}.$$

$$.2,$$

$$r=0.5.$$

$$\lg\tau_{0.5}-\lg C_{0\mathrm{H}_2\mathrm{SO}_4}(\quad\quad\quad.4).$$

75 – 80<sup>0</sup> ,

1. -

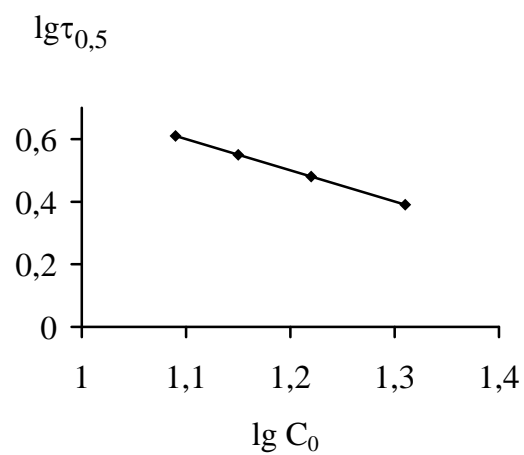
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. 4. ,

$r = 0,5$ ,

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16.04.07